

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A recording apparatus that records a first data in a ~~recordable~~ recording medium, the recording apparatus ~~characterized by~~ comprising:

a recording unit ~~means~~ that records the first data in the recording medium;

a generating unit ~~means~~ that generates, ~~for each predetermined recording unit,~~ a second data indicating a model of the ~~own~~ recording apparatus; and

a calculating unit ~~means~~ that applies a predetermined function to a third data, which is included in the first data recorded in the recording medium by the recording unit ~~means~~ and changes every time the first data is recorded in the recording medium by the recording unit ~~means~~, to ~~thereby~~ calculate a discrimination code indicating that the recording apparatus recorded the first data in the recording medium, ~~and in that~~

wherein the recording unit ~~means~~ further records the discrimination code calculated by the calculating unit ~~means~~, the third data, and the second data generated by the generating unit ~~means~~ in the recording medium.

2. (Currently Amended) A recording apparatus according to claim 1, ~~characterized in that~~ wherein the calculating unit ~~means~~ calculates the discrimination code by applying a function for reducing an amount of data to be smaller than the third data to the third data.

3. (Currently Amended) A recording apparatus according to claim 2,
~~characterized in that~~ wherein the calculating unit means calculates the discrimination
code by applying a hash function to the third data.

4. (Currently Amended) A recording apparatus according to claim 1,
~~characterized in that~~ wherein the third data includes at least data recorded only by the
recording apparatus.

5. (Currently Amended) A recording apparatus according to claim 4,
~~characterized in that~~ wherein the third data includes data for managing a program area
of the recording medium and control data for the recording medium.

6. (Currently Amended) A recording apparatus according to claim 1,
~~characterized in that~~ wherein the second data generated by the generating unit means
~~includes, for each predetermined recording unit,~~ data indicating that the recording was
performed by an apparatus of the model of the recording apparatus and data indicating
that the recording was performed by an apparatus of a model different from the
recording apparatus.

7. (Currently Amended) A recording apparatus according to claim 1,
~~characterized in that~~ wherein the calculating unit means calculates the discrimination
code by applying the function to the second data and the third data, ~~which are parts of~~
~~the first data.~~

8. (Currently Amended) A recording method for a recording apparatus that records a first data in a recordable recording medium, the recording method ~~characterized by~~ comprising:

~~a first recording step of~~ recording the first data in the recording medium;

~~a generating step of~~ generating, for each predetermined recording unit, a second data indicating a model of the ~~own~~ recording apparatus; and

~~a calculating step of~~ applying a predetermined function to a third data, which is included in the first data recorded in the recording medium ~~by processing in the first recording step~~ and changes every time the first data is recorded in the recording medium ~~by the processing in the first recording step~~, to thereby calculate a discrimination code indicating that the recording apparatus recorded the first data in the recording medium, ~~and~~

~~a second recording step of~~ wherein recording the first data further comprises recording the discrimination code ~~calculated by the processing in the calculating step,~~ the third data, and the second data ~~generated by the processing in the generating step~~ in the recording medium.

9. (Currently Amended) A non-transitory computer medium storing a program for recording first data in a recordable recording medium, the program ~~characterized by~~ causing a computer to execute processing comprising:

~~a first recording step of~~ recording the first data in the recording medium;

~~a generating step of generating, for each predetermined recording unit, a second~~
data indicating a model of the ~~own~~ recording apparatus; and

~~a calculating step of applying a predetermined function to a third data, which is~~
included in the first data recorded in the recording medium ~~by processing in the first~~
~~recording step~~ and changes every time the first data is recorded in the recording
medium ~~by the processing in the first recording step~~, to thereby calculate a
discrimination code indicating that the recording apparatus recorded the first data in the
recording medium; and

~~a second recording step of~~ wherein recording the first data further comprises
recording the discrimination code ~~calculated by the processing in the calculating step,~~
the third data, and the second data ~~generated by the processing in the generating step~~
in the recording medium.

10. (Currently Amended) A reproducing apparatus that reproduces a first data
recorded in a recording medium, the reproducing apparatus ~~characterized by~~
comprising:

a readout unit ~~means~~ that reads out, from the recording medium, a second data
indicating a model of a recording apparatus that performed recording of the first data in
the recording medium, a third data that changes every time data is recorded in the
recording medium, and a first discrimination code indicating the model of the recording
apparatus that recorded the first data in the recording medium, the second data, the
third data, and the first discrimination code being included in the first data;

a calculating unit means that calculates a second discrimination code indicating the model of the recording apparatus, ~~which recorded the first data in the recording medium,~~ by applying a predetermined function to the third data read out by the readout unit means; and

an executing unit means that executes predetermined processing using the second data when the second discrimination code calculated by the calculating unit means and the first discrimination code read out by the readout unit means coincide with each other.

11. (Currently Amended) A reproducing apparatus according to claim 10, ~~characterized in that~~ wherein the calculating unit means calculates the second discrimination code by applying a function for reducing an amount of data to be smaller than the third data to the third data.

12. (Currently Amended) A reproducing apparatus according to claim 11, ~~characterized in that~~ wherein the calculating unit means calculates the second discrimination code by applying a hash function to the third data.

13. (Currently Amended) A reproducing apparatus according to claim 10, ~~characterized in that~~ wherein the third data includes at least data recorded only by the recording apparatus.

14. (Currently Amended) A reproducing apparatus according to claim 13,
~~characterized in that~~ wherein the third data includes data for managing a program area
of the recording medium and control data for the recording medium.

15. (Currently Amended) A reproducing apparatus according to claim 13,
~~characterized in that~~ wherein the calculating unit ~~means~~ calculates the second
discrimination code by applying the function to the second data and the third data.

16. (Currently Amended) A reproducing method for a reproducing apparatus
that reproduces a first data recorded in a recording medium, the reproducing method
~~characterized by comprising:~~

~~a readout step of~~ reading out, from the recording medium, a second data
indicating a model of a recording apparatus that performed recording of the first data in
the recording medium, a third data that changes every time data is recorded in the
recording medium, and a first discrimination code indicating the model of the recording
apparatus that recorded the first data in the recording medium, the second data, the
third data, and the first discrimination code being included in the first data;

~~a calculating step of~~ calculating a second discrimination code indicating the
model of the recording apparatus, ~~which recorded the first data in the recording~~
~~medium, by applying a predetermined function to the third data read out by processing~~
~~in the readout step; and~~

~~an executing step of~~ executing predetermined processing using the second data
when the second discrimination code ~~calculated by processing in the calculating step~~

and the first discrimination code ~~read out by processing in the readout step~~ coincide with each other.

17. (Currently Amended) A non-transitory computer-readable medium storing a program for reproducing a first data recorded in a recording medium, the program ~~characterized by~~ causing a computer to execute processing comprising:

~~a readout step of~~ reading out, from the recording medium, a second data indicating a model of a recording apparatus that performed recording of the first data in the recording medium, a third data that changes every time data is recorded in the recording medium, and a first discrimination code indicating the model of the recording apparatus that recorded the first data in the recording medium, the second data, the third data, and the first discrimination code being included in the first data;

~~a calculating step of~~ calculating a second discrimination code indicating the model of the recording apparatus, ~~which recorded the first data in the recording medium,~~ by applying a predetermined function to the third data ~~read out by processing in the readout step;~~ and

~~an executing step of~~ executing predetermined processing using the second data when the second discrimination code ~~calculated by processing in the calculating step~~ and the first discrimination code ~~read out by processing in the readout step~~ coincide with each other.